DARWIN Control API
Reference

Content

1. Summary

1.1 Brief Introduction

This document is used to introduce API commands based on DARWIN Control.

1.2 Instructions

Before using API commands on DARWIN Control, it is necessary to remotely log in to the corresponding terminal using TELNET or use a serial port terminal to interact with API commands. Any of the following methods can be used to enter the control terminal for API interaction.

a. TELNET login to DARWIN CONTROL, default port number 23.
b. Connect the serial port on the rear panel of DARWIN CONTROL to the PC using a serial port cable. Open the serial port terminal tool on the PC, select the corresponding serial port number to connect, and then enter the controller terminal for API interaction. The default baud rate is 57600, with 8 data bits, 1 stop bit, and no parity bit.

2. DAWRIN CONTROL System API Reference

2.1 Help information

API interface	
HELP or ?	
Describe	
Print API commands supported by the current system	
Parameter	Describe
None	
Return value	Describe
HELP Information	Print HELP information
Example	
TELNET login DARWIN CONTROL Enter the command: HELP Enter the command: ?	

2.2 Status information output

API interface	
GET STATUS	
Describe	
Output DARWIN CONTROL status information and TX/RX status information added to the current project.	
Parameter	Describe
None	
Return value	Describe
Status information	
Example	

TELNET login DARWIN CONTROL
Enter the command:
GET STATUS
Return:

```
================================================================
================================================================
                    IP Control Box DARWIN CONTROL Status Info
                    FW Version: 2.03.19

Power     IR        Baud
On        On         57600

In        EDID      IP                  NET/Sig    AudioFormat
001       DF000     169.254.010.001     On /Off     PCM
002       DF000     169.254.010.002     Off/Off     PCM
```

```
Out       FromIn   IP                  NET/HDMI   Res   Mode   Osp
001       001      169.254.020.001     Off/Off    01    MX     SNK
002       001      169.254.020.002     Off/Off    01    MX     SNK
003       001      169.254.006.003     On /Off    01    MX     SNK
LAN       DHCP     IP                  Gateway            SubnetMask
01_POE    Off      169.254.008.100 169.254.008.001 255.255.000.000
02_CTRL On         192.168.006.100 192.168.006.001 255.255.255.000
          (static:192.168.006.100 192.168.006.001 255.255.255.000)
Telnet    SSH2     HTTPS   WEB   LAN01 MAC                LAN02 MAC
00023     Off      Off     On    A2:9C:E4:17:56:F9        00:00:00:00:00:08
Domain Name
Controller.local
============================================================
API Interface
002       001      169.254.020.002     Off/Off    01    MX     SNK
003       001      169.254.006.003     On /Off    01    MX     SNK

LAN       DHCP     IP                  Gateway            SubnetMask
01_POE    Off      169.254.008.100 169.254.008.001 255.255.000.000
02_CTRL On         192.168.006.100 192.168.006.001 255.255.255.000
          (static:192.168.006.100 192.168.006.001 255.255.255.000)

Telnet    SSH2     HTTPS   WEB   LAN01 MAC                LAN02 MAC
00023     Off      Off     On    A2:9C:E4:17:56:F9        00:00:00:00:00:08

Domain Name
Controller.local
============================================================
```

2.3 Configure the GPIO direction on the rear panel of DARWIN CONTROL

API interface	
SET GPIO [gpio] DIR IN/OUT	
Describe	
Configure the GPIO direction on the rear panel of DARWIN CONTROL	
Parameter	Describe
gpio	1: GPIO1 2: GPIO2 3: GPIO3 4: GPIO4
IN	GPIO as input function
OUT	GPIO as output function
Return value	Describe
[SUCCESS]Set GPIO 01 as input port.	GPO1 is configured as input mode
[SUCCESS]Set GPIO 01 as output port.	GPO1 is configured as output mode
Example	

TELNET login DARWIN CONTROL Configure GPIO1 as input mode, enter the command: SET GPIO 1 DIR IN return: [SUCCESS]Set GPIO 01 as input port. Configure GPO1 as output mode, input command: SET GPIO 1 DIR OUT return: [SUCCESS]Set GPIO 01 as output port.

2.4 Configure the GPIO output level on the rear panel of DARWIN CONTROL

API interface	
SET GPIO [gpio] LEVEL Low/High	
Describe	
Configure the GPIO output level on the rear panel of DARWIN CONTROL. This API only works on GPIO with output direction.	
Parameter	Describe
gpio	1: GPIO1 2: GPIO2 3: GPIO3 4: GPIO4
Low/High	Low: Output low level High: Output high level
Return value	Describe
[SUCCESS]Set GPIO 01 output level 0.	GPO1 output low level
[SUCCESS]Set GPIO 01 output level 1.	GPO1 output high level
Example	
TELNET login DARWIN CONTROL Configure GPO1 to output low level, enter the command: SET GPIO 1 LEVEL Low return: [SUCCESS]Set GPIO 01 output level 0. Configure GPO1 to output high level, input command: SET GPIO 1 LEVEL High return: [SUCCESS]Set GPIO 01 output level 1.	

2.5 Obtain the GPIO input level on the rear panel of DARWIN CONTROL

API interface
GET GPIO [gpio] LEVEL
Describe
Obtain the GPIO input level on the rear panel of DARWIN CONTROL. This

API only works on GPIO with input direction.	
Parameter	Describe
gpio	1: GPIO1 2: GPIO2 3: GPIO3 4: GPIO4
Return value	Describe
[SUCCESS]Get GPIO 01 real input level 1.	GPO1 obtains input level as high level
Example	
TELNET login DARWIN CONTROL Get GPO1 input level, enter the command: GET GPIO 1 LEVEL return: [SUCCESS]Get GPIO 01 real input level 1.	

2.6 Obtain GPIO status information on the rear panel of DARWIN CONTROL

API interface	
GET GPIO [gpio] STATUS	
Describe	
Obtain GPIO status information on the rear panel of DARWIN CONTROL.	
Parameter	Describe
gpio	Optional parameter, when not specified, represents obtaining all GPIO statuses 1: GPIO1 2: GPIO2 3: GPIO3 4: GPIO4
Return value	Describe
Return GPIO status information	
Example	
TELNET login DARWIN CONTROL Get GPO1 status information, enter the command: GET GPIO 1 STATUS Return: ========== IP Control Box DARWIN CONTROL GPIO Info FW Version: 2.03.19 GPIO DIR Set Get 01 Out 0 0 ==========	

2.7 Set DARWIN CONTROL serial port baud rate

API interface	
SET RS232BAUDRATE [a]	
Describe	
Set the baud rate of DARWIN CONTROL serial port to a, with a factory default of 57600	
Parameter	Describe
a	[0:115200 1:57600, 2:38400, 3:19200, 4:9600]
Return value	Describe
[SUCCESS]Set RS232 Baud Rate to 115200bps.	Set baud rate to 57600 successfully
Example	
TELNET login DARWIN CONTROL Set the serial port baud rate to 115200, enter the command: SET RS232BAUDRATE 0 return: [SUCCESS]Set RS232 Baud Rate to 115200bps. Set the serial port baud rate to 57600, enter the command: SET RS232BAUDRATE 1 return: [SUCCESS]Set RS232 Baud Rate to 57600bps.	

2.8 Reset DARWIN CONTROL system configuration

API interface	
SET RESET	
Describe	
Reset system configuration information and clear devices that have been added to the system.	
Parameter	Describe
None	
Return value	Describe
[SUCCESS]System will reset to default config, it will take about 40 seconds, and RS232 will disable during this time, please wait...	Reset successful
Example	
TELNET login DARWIN CONTROL Reset system configuration, enter the command: SET RESET return: Sure to RESET system to default settings? Type "Yes" after next prompt to confirm... enter yes	

return: [SUCCESS]System will reset to default config, it will take about 40 seconds, and RS232 will disable during this time, please wait...

2.9 Reset DARWIN CONTROL network configuration

API interface	
SET RESET NETWORK	
Describe	
Reset DARWIN CONTROL network configuration.	
Parameter	Describe
None	
Return value	Describe
[SUCCESS]Network will reset to default config, it will take about 40 seconds, and RS232 will disable during this time, please wait...	Reset successfully
Example	
TELNET login DARWIN CONTROL Reset the network configuration, enter the command: SET RESET NETWORK Return: Sure to RESET network config to default settings? Type "Yes" after next prompt to confirm... Enter yes Return: [SUCCESS]Network will reset to default config, it will take about 40 seconds, and RS232 will disable during this time, please wait...	

2.10 Reset all configurations of DARWIN CONTROL

API interface	
SET RESET ALL	
Describe	
Reset all configurations of DARWIN CONTROL.	
Parameter	Describe
None	
Return value	Describe
[SUCCESS]System and network will reset to default config, it will take about 40 seconds, and RS232 will disable during this time, please wait...	Reset successfully
Example	

TELNET login DARWIN CONTROL
Reset all configuration, enter the command:
SET RESET ALL
Return:
Sure to RESET system and network to default settings? Type "Yes" after next prompt to confirm...
Enter yes
Reset all configuration, enter the command:
[SUCCESS]System and network will reset to default config, it will take about 40 seconds,
and RS232 will disable during this time, please wait...

3. RX Control Module API Reference

3.1 Set RX ID number

API interface	
SET DEC [dec] ID [id]	
Describe	
Set RX ID number.	
Parameter	Describe
dec	[001... 762]: RX ID number
id	[001... 762]: Target ID number
Return value	Describe
[SUCCESS]Set decoder 001 ID to 760.	Set RX1 ID number to 760
[ERROR]Decoder 100 does not exist.	RX100 does not exist
Example	
TELNET login DARWIN CONTROL Set RX1 ID to 760, enter the command: SET DEC 1 ID 760 return: [SUCCESS]Set decoder 001 ID to 760.	

3.2 Set RX name

API interface	
SET DEC [dec] NAME [name]	
Describe	
Set RX name.	
Parameter	Describe
dec	[001... 762]: RX ID number
name	Name, with a maximum length of 16 bytes
Return value	Describe
[SUCCESS]Set decoder 001 name: TEST1.	Set RX1 name to TEST 1
Example	
TELNET login DARWIN CONTROL Set RX1 alias as TEST 1, enter the command: SET DEC 1 NAME TEST return: [SUCCESS]Set decoder 001 name:TEST1.	

3.3 Set RX routing

API interface
SET DEC [dec] SWITCH [enc] ALL
Describe
Set RX Video/IR/RS-232/USB routing

Parameter	Describe
dec	[001... 762]: RX ID number 0: All RXs
enc	[001... 762]: TX ID number 0: Cancel routing
Return value	Describe
[SUCCESS]Set decoder 001 from encoder 003.	Set RX1 Video/IR/RS-232/USB signal routing to TX3
Example	
TELNET login DARWIN CONTROL Enter the command: SET DEC 1 SWITCH 3 ALL return: [SUCCESS]Set decoder 001 from encoder 003. Enter the command: SET DEC 1 SWITCH 0 ALL： return: [SUCCESS]Set decoder 001 no source.	

3.4 Lock RX video routing

API interface	
SET DEC [dec] SWITCH [enc] VIDEO	
Describe	
Lock the RX video signal routing.	
Parameter	Describe
dec	[001... 762]: RX ID number 0: All RXs
enc	[001... 762]: TX ID number 0: Unlock
Return value	Describe
[SUCCESS]Set decoder 001 video from encoder 003.	Set RX1 to lock the video signal routing to TX3
Example	
TELNET login DARWIN CONTROL Enter the command: SET DEC 1 SWITCH 3 VIDEO return: [SUCCESS]Set decoder 001 video from encoder 003. Enter the command: SET DEC 1 SWITCH 0 VIDEO return: [SUCCESS]Set decoder 001 video follow SET DEC SWITCH ALL command select.	

3.5 Lock RX IR routing

API interface	
SET DEC [dec] SWITCH [enc] IR	
Describe	
Lock the RX IR signal routing.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
enc	[001...762]: 0: Unlock
Return value	Describe
[SUCCESS]Set decoder 001 IR from encoder 003.	Set RX1 to lock IR signal routing to TX3
Example	
TELNET login DARWIN CONTROL Enter the command: SET DEC 1 SWITCH 3 IR return: [SUCCESS]Set decoder 001 IR from encoder 003. Enter the command: SET DEC 1 SWITCH 0 IR return: [SUCCESS]Set decoder 001 IR follow SET DEC SWITCH ALL command select.	

3.6 Lock RX RS-232 routing

API interface	
SET DEC [dec] SWITCH [enc] RS232	
Describe	
Lock the RX RS-232 signal routing.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
enc	[001...762]: TX ID number 0: Unlock
Return value	Describe
[SUCCESS]Set decoder 001 RS232 from encoder 003.	Set RX1 to lock RS-232 signal routing to TX3
Example	
TELNET login DARWIN CONTROL Enter the command: SET DEC 1 SWITCH 3 RS232 return: [SUCCESS]Set decoder 001 RS232 from encoder 003. Enter the command:	

SET DEC 1 SWITCH 0 RS232 return: [SUCCESS]Set decoder 001 serial follow SET DEC SWITCH ALL command select.

3.7 Lock RX USB routing

API interface	
SET DEC [dec] SWITCH [enc] USB	
Describe	
Lock the RX USB signal routing.	
Parameter	Describe
dec	[001... 762]: RX ID number 0: All RXs
enc	[001... 762]: TX ID number 0: Unlock
Return value	Describe
[SUCCESS]Set decoder 001 USB from encoder 003.	Set RX1 to lock USB signal routing to TX3
Example	
TELNET login DARWIN CONTROL Enter the command: SET DEC 1 SWITCH 3 USB return: [SUCCESS]Set decoder 001 USB from encoder 003. Enter the command: SET DEC 1 SWITCH 0 USB return: [SUCCESS]Set decoder 001 USB follow SET DEC SWITCH ALL command select.	

3.8 Control the RX power light to flash

API interface	
SET DEC [dec] LED ON/OFF SET DEC [dec] LED ON 90	
Describe	
Control the RX power light to flash.	
Parameter	Describe
dec	[001... 762]: RX ID number 0: All RXs
ON	The power light is flashing
OFF	The power light is always on
ON 90	The power light flashes for 90 seconds and then remains on
Return value	Describe
[SUCCESS]Flash power LED on	Flash RX1 power light

decoder 001.	
Example	
TELNET login DARWIN CONTROL Flash power light, enter the command: SET DEC 1 LED ON return: [SUCCESS]Flash power LED on decoder 001. The power light is always on. Enter the command: SET DEC 1 LED OFF return: [SUCCESS]Disable flash power LED on decoder 001. Flash power light for 90 seconds, enter the command: SET DEC 1 LED ON 90 return: [SUCCESS]Flash power LED on decoder 001 and keep 90 seconds.	

3.9 Control the digital tube on the front panel of RX

API interface	
SET DEC [dec] FPLED 0/9	
Describe	
Control the digital tube on the front panel of RX to turn on/off.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
0	The digital tube is always on
9	The digital tube lights up for 90 seconds before turning off
Return value	Describe
[SUCCESS]Set decoder 001 LED always on.	Control the digital tube to be always on.
Example	
TELNET login DARWIN CONTROL Control the RX1 digital tube to remain on, enter the command: SET DEC 1 FPLED 0 return: [SUCCESS]Set decoder 001 LED always on. Control the RX1 digital tube to turn on for 90 seconds and then turn off. Enter the command: SET DEC 1 FPLED 9 return: [SUCCESS]Set decoder 001 LED 90 seconds auto off.	

3.10 Set RX OSD on/off

API interface
SET DEC [dec] OUTPUT OSD ON/OFF
Describe

Turn on/off RX OSD	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
ON	Turn on OSD
OFF	Turn off OSD
Return value	Describe
[SUCCESS]Show OSD on decoder 001.	Turn on OSD
Example	
TELNET login DARWIN CONTROL Turn on OSD and enter the command: SET DEC 1 OUTPUT OSD ON return: [SUCCESS]Show OSD on decoder 001. Turn off OSD, enter the command: SET DEC 1 OUTPUT OSD OFF return: [SUCCESS]Hide OSD on decoder 001.	

3.11 Set the front panel button on/off

API interface	
SET DEC [dec] BUTTON ON/OFF	
Describe	
Turn on/off RX front panel button	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
ON	Enable button
OFF	Disable button
Return value	Describe
[SUCCESS]Set decoder 003 front panel button on.	Enable button
Example	
TELNET login DARWIN CONTROL Enable button, enter the command: SET DEC 1 BUTTON ON return: [SUCCESS]Set decoder 003 front panel button on.	

3.12 Set RX HDMI OUTPUT on/off

API interface
SET DEC [dec] OUTPUT ON/OFF
Describe
Turn on/off RX HDMI OUTPUT.

Parameter	Describe
dec	[001…762]:RX ID number 0: All RXs
ON	Turn on HDMI OUTPUT
OFF	Turn off HDMI OUTPUT
Return value	Describe
[SUCCESS]Set decoder 001 output on.	Turn on HDMI OUTPUT
Example	
TELNET login DARWIN CONTROL Turn on HDMI OUTPUT, enter the command： SET DEC 1 OUTPUT ON return： [SUCCESS]Set decoder 001 output on. Turn off HDMI OUTPUT, enter the command： SET DEC 1 OUTPUT OFF return： [SUCCESS]Set decoder 001 output off.	

3.13 Set RX HDMI OUTPUT MUTE

API interface	
SET DEC [dec] OUTPUT MUTE ON/OFF	
Describe	
Set RX HDMI OUTPUT mute.	
Parameter	Describe
dec	[001…762]:RX ID number 0: All RXs
ON	Set HDMI OUTPUT mute on
OFF	Set HDMI OUTPUT mute off
Return value	Describe
[SUCCESS]Set decoder 001 output mute on.	Set HDMI OUTPUT mute on
Example	
TELNET login DARWIN CONTROL Set HDMI OUTPUT mute on, enter the command: SET DEC 1 OUTPUT MUTE ON return： [SUCCESS]Set decoder 001 output mute on. Set HDMI OUTPUT mute off, enter the command: SET DEC 1 OUTPUT MUTE OFF	

return：

[SUCCESS]Set decoder 001 output mute off.

3.14 Set RX HDMI OUTPUT pause

API interface	
SET DEC [dec] OUTPUT PAUSE ON/OFF	
Describe	
Pause RX HDMI output.	
Return value	Describe
dec	[001…762]: RX ID number 0: All RXs
ON	Pause HDMI OUTPUT
OFF	Restore HDMI OUTPUT
Return value	Describe
[SUCCESS]Set decoder 001 pause on.	Pause RX1 HDMI OUTPUT
Example	
TELNET login DARWIN CONTROL Pause RX1 HDMI OUTPUT, enter the command: SET DEC 1 OUTPUT PAUSE ON return: [SUCCESS]Set decoder 001 pause on. Turn off HDMI OUTPUT PAUSE, enter the command: SET DEC 1 OUTPUT PAUSE OFF return: [SUCCESS]Set decoder 001 pause off.	

3.15 Set RX output resolution

API interface	
SET DEC [dec] OUTPUT RESOLUTION [res]	
Describe	
Set RX output resolution to res	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
res	00: Bypass 01: 1080p@60 02: 1080p@50 03: 1080p@30 04: 1080p@25 05: 1080p@24 06: 720@p60 07: 720p@50

	08: 576p@50 09: 480p@60 10: 640x480@60 11: 800x600@60 12: 1024x768@60 13: 1280x800@60 14: 1280x1024@60 15: 1366x768@60 16: 1440x900@60 17: 1600x1200@60 18: 1680x1050@60 19: 1920x1200@60
Return value	Describe
[SUCCESS]Set decoder 001 resolution to 1080P@60Hz.	Set RX1 output resolution to 1080P60
Example	
TELNET login DARWIN CONTROL Set the output resolution of RX1 to 1080P60, enter the command: SET DEC 1 OUTPUT RESOLUTION 1 return: [SUCCESS]Set decoder 001 resolution to 1080P@60Hz.	

3.16 Set RX screen rotation

API interface	
SET DEC [dec] OUTPUT ROTATE [rtt]	
Describe	
Set RX screen rotation.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
rtt	0:0° 1:90° 2:180° 3:270°
Return value	Describe
[SUCCESS]Set decoder 001 rotate 90 degree.	Set RX1 screen to rotate 90 degrees
Example	
TELNET login DARWIN CONTROL Set the RX1 screen to rotate 90 degrees, enter the command: SET DEC 1 OUTPUT ROTATE 1 return: [SUCCESS]Set decoder 001 rotate 90 degree.	

3.17 Set IR on/off

API interface

SET DEC [dec] IR ON/OFF	
Describe	
Set the IR on/off on the rear panel of RX.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
ON	Turn on IR
OFF	Turn off IR
Return value	Describe
[SUCCESS]Send decoder 001 IR data ON.	Turn on IR
Example	
TELNET login DARWIN CONTROL Set the IR on, enter the command: SET DEC 1 IR ON return: [SUCCESS]Send decoder 001 IR data ON.	

3.18 Set RX IR level

API interface	
SET DEC [dec] IR VOL 5V/12V	
Describe	
Set the RX IR level.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
5V	Use 5V IR cable
12V	Use 12V IR cable
Return value	Describe
[SUCCESS]Set decoder 001 IR voltage 5V.	Set RX1 to use 5V IR cable
Example	
TELNET login DARWIN CONTROL Set RX1 to use 5V IR cable, enter the command: SET DEC 1 IR VOL 5V： return: [SUCCESS]Set decoder 001 IR voltage 5V.	

3.19 Set RX transmission mode

API interface	
SET DEC [dec] STREAM UNICAST/MULTICAST	
Describe	
Set RX transmission mode.	
Parameter	Describe

dec	[001…762]: RX ID number 0: All RXs
UNICAST	Unicast Mode
MULTICAST	Multicast mode
Return value	Describe
[SUCCESS]Set decoder 001 multicast on.	Set RX1 to use multicast mode
Example	
TELNET login DARWIN CONTROL Set RX1 to use multicast mode, enter the command: SET DEC 1 STREAM MULTICAST return: [SUCCESS]Set decoder 001 multicast on.	

3.20 Set RX standby time

API interface	
SET DEC [dec] OUTPUT LOST [time]	
Describe	
Set RX standby time, turn off output when there is no signal timeout.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
time	[0... 60]: timeout, in minutes 0: Never standby
Return value	Describe
[SUCCESS]Set decoder 001 video lost timeout to 1 minutes.	Set RX1 no signal timeout for 1 minute to turn off output
Example	
TELNET login DARWIN CONTROL Set RX1 to disable output after 1 minute of no signal timeout. Enter the command: SET DEC 1 OUTPUT LOST 1 return: [SUCCESS]Set decoder 001 video lost timeout to 1 minutes.	

3.21 Set RX image output mode

API interface	
SET DEC [dec] MODE MX/VW	
Describe	
Set RX image output mode, only valid for the decoders in Video Wall.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
MX	MX mode output (displaying all images)

VW	VW mode output (displaying partial images)
Return value	Describe
[SUCCESS]Set decoder 001 to matrix mode.	Set RX1 MX mode output
Example	
TELNET login DARWIN CONTROL Set RX1 MX mode output, enter the command: SET DEC 1 MODE MX return: [SUCCESS]Set decoder 001 to matrix mode.	

3.22 Set RX serial port parameters

API interface	
SET DEC [dec] GUEST ON/OFF BR [br] BIT [bit]	
Describe	
Set RX serial port parameters	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
ON	Enable serial port Guest mode
OFF	Disable the serial port Guest mode
br	[0:300 1:600 2:1200 3:2400 4:4800 5:9600] [6:19200 7:38400 8:57600 9:115200]
bit	Data Bits + Parity + Stop Bits example: 8n1 Data Bits=[5...8], Parity=[n o e], Stop Bits=[1..2]
Return value	Describe
[SUCCESS]Set serial guest mode config done.	Successfully set RX serial port parameters
Example	
TELNET login DARWIN CONTROL Set RX1 to enable serial port Guest mode, baud rate 115200, 8-bit data bits, no checksum, 1-bit stop bit, enter the command: SET DEC 1 GUEST ON BR 9 BIT 8N1 return: [SUCCESS]Set serial guest mode config done.	

3.23 Activate RX serial port Guest mode

API interface
SET DEC [dec] GUEST
Describe
Activate RX serial port Guest mode, only valid when the serial port

parameter is set to GUEST ON	
Parameter	Describe
dec	[001... 762]: RX ID number
Return value	Describe
None	
Example	
TELNET login DARWIN CONTROL Activate RX1 serial port Guest mode, enter the command: SET DEC 1 GUEST	

3.24 Exit RX serial port Guest mode

API interface	
EXITGUEST	
Describe	
After starting RX serial port Guest mode, send EXITGUEST to exit Guest mode	
Parameter	Describe
None	
Return value	Describe
None	
Example	
TELNET login DARWIN CONTROL Exit RX1 serial port Guest mode, enter the command: EXITGUEST	

3.25 Set RX IP mode

API interface	
SET DEC [dec] IPMODE DHCP/STATIC	
Describe	
Set the IP mode of RX	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
DHCP	Dynamic IP
STATIC	Static IP
Return value	Describe
[SUCCESS]Set encoder 001 ip mode to dhcp. Use "SET DEC xx NETWORK REBOOT" command to apply new config!!!	Set successfully, RX needs to be restarted for it to take effect
Example	

TELNET login DARWIN CONTROL Set RX1 to dynamic IP mode, enter the command: SET DEC 1 IPMODE DHCP return: [SUCCESS]Set encoder 001 ip mode to dhcp. Use "SET DEC xx NETWORK REBOOT" command to apply new config!!!

3.26 Set RX IP address

API interface	
SET DEC [dec] STATIC IP [ip]	
Describe	
Set the IP address of RX, which is only valid when IP MODE is set to STATIC.	
Parameter	Describe
dec	[001…762]: RX ID number
ip	IP address, such as 169.254.10.10
Return value	Describe
[SUCCESS]Set decoder 001 IP address to 169.254.020.006. Use "SET DEC xx NETWORK REBOOT" command to apply new config!!!	Set successfully, RX needs to be restarted for it to take effect
Example	
TELNET login DARWIN CONTROL Set the IP of RX1 to 169.254.20.6, enter the command: SET DEC 1 STATIC IP 169.254.20.6 return: [SUCCESS]Set decoder 001 IP address to 169.254.020.006. Use "SET DEC xx NETWORK REBOOT" command to apply new config!!!	

3.27 Set RX subnet mask

API interface	
SET DEC [dec] STATIC MASK [mask]	
Describe	
Set the subnet mask for RX, which is only valid when IP MODE is set to STATIC.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
mask	Subnet mask, such as 255.255.0.0
Return value	Describe
[SUCCESS]Set encoder 001 subnet mask address to 255.255.000.000. Use "SET DEC xx	Set successfully, RX needs to be restarted for it to take effect

NETWORK REBOOT" command to apply new config!!!	
Example	
TELNET login DARWIN CONTROL Set the subnet mask of RX1 to 255.255.0.0, enter the command: SET DEC 1 STATIC MASK 255.255.0.0 return: [SUCCESS]Set encoder 001 subnet mask address to 255.255.000.000. Use "SET DEC xx NETWORK REBOOT" command to apply new config!!!	

3.28 Set RX gateway address

API interface	
SET DEC [dec] STATIC GATEWAY [gw]	
Describe	
Set the gateway address of RX, which is only valid when IP MODE is set to STATIC.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
gw	Gateway address, such as 169.254.0.1
Return value	Describe
[SUCCESS]Set encoder 001 gateway address to 169.254.000.001. Use "SET DEC xx NETWORK REBOOT" command to apply new config!!!	Set successfully, RX needs to be restarted for it to take effect
Example	
TELNET login DARWIN CONTROL Set the gateway address of RX1 to 169.254.0.1, enter the command: SET DEC 1 STATIC GATEWAY 169.254.0.1 return： [SUCCESS]Set encoder 001 gateway address to 169.254.000.001. Use "SET DEC xx NETWORK REBOOT" command to apply new config!!!	

3.29 Set RX network reboot

API interface	
SET DEC [dec] NETWORK REBOOT	
Describe	
Set RX network reboot	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs

Return value	Describe
[SUCCESS]Set decoder 001 reboot and apply all the new config.	Set successfully, RX needs to be restarted for it to take effect
Example	
TELNET login DARWIN CONTROL Reboot the network of RX1 and enter the command: SET DEC 1 NETWORK REBOOT return: [SUCCESS]Set decoder 001 reboot and apply all the new config.	

3.30 Remove RX from the system

API interface	
SET DEC [dec] DELETE	
Describe	
Delete RX	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
Return value	Describe
[SUCCESS]Delete decoder 001 done.	Delete RX1 successfully
Example	
TELNET login DARWIN CONTROL Delete RX1, enter the command: SET DEC 1 DELETE return: [SUCCESS]Delete decoder 001 done.	

3.31 Reboot RX

API interface	
SET DEC [dec] REBOOT	
Describe	
Reboot RX	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
Return value	Describe
[SUCCESS]Set decoder 001 reboot and apply all the new config.	Reboot successfully
Example	
TELNET login DARWIN CONTROL Reboot RX1 and enter the command: SET DEC 1 REBOOT return: [SUCCESS]Set decoder 001 reboot and apply all the new config.	

3.32 Reset RX

API interface	
SET DEC [dec] RESET	
Describe	
Reset RX	
Describe	
dec	[001…762]: RX ID number 0: All RXs
Return value	Describe
[SUCCESS]Set decoder 001 reset to default setting.	Reset successful
Example	
TELNET login DARWIN CONTROL Reset RX1, enter the command: SET DEC 1 RESET return: [SUCCESS]Set decoder 001 reset to default setting.	

3.33 Obtain RX status information

API interface	
GET DEC [dec] STATUS	
Describe	
Obtain the status information of RX, without the parameter dec, to obtain the status information of all RX, i.e. GET DEC STATION and GET DEC 0 STATION.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
Return value	Describe
Return RX status information	Include version number, network information, and other status information
Example	
TELNET login DARWIN CONTROL Obtain the status information of RX1, enter the command: GET DEC 3 STATUS return： ========== IP Control Box DARWIN CONTROL Decoder Info FW Version: 2.03.19 Out Net HPD Ver Mode Res Rotate Name 003 On Off 1.10.03 MX 01 1 Decoder 003 >>Fr Vid/IR_/Ser/USB MCast 001 000/000/000/000 On >>ASPECT OSP IR BTN LED SGEn/Br/Bit	

```
        Maintain    SNK       On       On          9          Off /9/8n1
      >>Video    Mute    Pause     Auto     VideoLostTimeout
        On         Off     Off       On       0
      >>MAC
        6c:df:fb:07:cf:c6
GET DEC 3 STATUS

return：

================================================================
                  IP Control Box DARWIN CONTROL Decoder Info
                  FW Version: 2.03.19

Out     Net       HPD     Ver        Mode     Res     Rotate    Name
003     On        Off     1.10.03 MX        01       1           Decoder 003
      >>Fr        Vid/IR_/Ser/USB          MCast
        001       000/000/000/000          On
      >>ASPECT       OSP       IR       BTN        LED       SGEn/Br/Bit
        Maintain    SNK       On       On          9          Off /9/8n1
      >>Video    Mute    Pause     Auto     VideoLostTimeout
        On         Off     Off       On       0
      >>MAC
        6c:df:fb:07:cf:c6
      >>IP                    GW                    SM
        169.254.020.003   169.254.008.001   255.255.000.000
================================================================
```

3.34 Set RX preset IP mode

API interface	
SET DEC PRESET IPMODE [mode]	
Describe	
Set the preset IP mode for RX, and when adding RX to the system, assign the RX's IP based on this preset mode	
Parameter	Describe
mode	0:AUTOIP 1:DHCP 2: STATIC
Return value	Describe
[SUCCESS]Set decoder preset IP to static mode.	RX preset IP mode is set to static successfully
Example	
TELNET login DARWIN CONTROL Set the RX preset IP mode to static, enter the command: SET DEC PRESET IPMODE 2 return: [SUCCESS]Set decoder preset IP to static mode.	

3.35 Set RX preset IP starting address

API interface	
SET DEC PRESET START IP [ip]	
Describe	
Set the IP starting address for RX preset	
Parameter	Describe
ip	IP address, such as 169.254.10.10
Return value	Describe
[SUCCESS]Set decoder preset IP min 172.016.010.001.	Set the IP starting address for RX preset to 172.16.10.1
Example	
TELNET login DARWIN CONTROL Set the RX preset IP starting address to 172.16.10.1, enter the command: SET DEC PRESET START IP 172.16.10.1 return: [SUCCESS]Set decoder preset IP min 172.016.010.001.	

3.36 Set RX preset IP end address

API interface	
SET DEC PRESET END IP [ip]	
Describe	
Set the RX preset IP end address, which should be greater than the starting address and in the same network segment.	
Parameter	Describe
ip	IP address, such as 169.254.20.10
Return value	Describe
[SUCCESS]Set decoder preset IP max 172.016.010.200.	Set the IP end address for RX preset to 172.16.10.200
Example	
TELNET login DARWIN CONTROL Set the IP end address for RX preset to 172.16.10.200, enter the command: SET DEC PRESET END IP 172.16.10.200 return: [SUCCESS]Set decoder preset IP max 172.016.010.200.	

3.37 Set RX preset subnet mask

API interface	
SET DEC PRESET SM [mask]	
Describe	
Set RX preset subnet mask	
Parameter	Describe
mask	Subnet mask, such as 255.255.0.0
Return value	Describe
[SUCCESS]Set decoder preset	Set the subnet mask for RX preset to

netmask 255.255.000.000.	255.255.0.0
Example	
TELNET login DARWIN CONTROL Set the subnet mask for RX preset to 255.255.0.0, enter the command: SET DEC PRESET SM 255.255.0.0 return: [SUCCESS]Set decoder preset netmask 255.255.000.000.	

3.38 Set RX preset gateway address

API interface	
SET DEC PRESET GW [gw]	
Describe	
Set RX preset gateway address	
Parameter	Describe
gw	Gateway address, such as 169.254.0.1
Return value	Describe
[SUCCESS]Set decoder preset gateway 172.016.010.001.	Set the RX preset gateway address to 172.16.10.1
Example	
TELNET login DARWIN CONTROL Set the RX preset gateway address to 172.16.10.1, enter the command: SET DEC PRESET GW 172.16.10.1 return: [SUCCESS]Set decoder preset gateway 172.016.010.001.	

3.39 Save RX preset configuration

API interface	
SET DEC PRESET APPLY	
Describe	
Save the preset configuration of RX. After setting the preset IP mode and other settings, you need to call APPLY to save it.	
Parameter	Describe
Return value	Describe
[SUCCESS]Set decoder preset IP done.	Save RX preset configuration successfully
Example	
TELNET login DARWIN CONTROL Save RX preset configuration, enter the command: SET DEC PRESET APPLY return: [SUCCESS]Set decoder preset IP done.	

3.40 Set RX HDCP mode

API interface	
SET DEC [dec] OSP SNK/SRC/OFF/H14/H22	
Describe	
Set RX HDCP mode, hide command, default value is SNK.	
Parameter	Describe
dec	[001…762]: RX ID number 0: All RXs
SRC	Follow the video source
SNK	Follow the backend TV
OFF	Turn off HDCP
H14	Force HDCP1.4
H22	Force HDCP2.2
Return value	Describe
[SUCCESS]Set decoder 001 osp mode SNK.	Set RX1 HDCP mode to follow the backend TV
Example	
TELNET login DARWIN CONTROL Set RX1 HDCP mode to follow the backend TV, enter the command: SET DEC 1 OSP SNK return: [SUCCESS]Set decoder 001 osp mode SNK.	

4. TX Control Module API Reference

4.1 Set TX ID number

API interface	
SET ENC [enc] ID [id]	
Describe	
Set TX ID number.	
Parameter	Describe
enc	[001…762]: TX ID number
id	[001…762]: Target ID number
Return value	Describe
[SUCCESS]Set encoder 001 ID to 760.	Set TX1 ID number to 760
[ERROR]Encoder 100 does not exist.	TX100 does not exist
Example	
TELNET login DARWIN CONTROL Set TX1 ID to 760, enter the command: SET ENC 1 ID 760 return: [SUCCESS]Set encoder 001 ID to 760.	

4.2 Set TX name

API interface	
SET ENC [enc] NAME [name]	
Describe	
Set TX name.	
Parameter	Describe
enc	[001…762]: TX ID number
name	Name, with a maximum length of 16 bytes
Return value	Describe
[SUCCESS]Set encoder 001 name:TEST1.	Set TX1 name as TEST 1
Example	
TELNET login DARWIN CONTROL Set TX1 alias as TEST 1, enter the command: SET ENC 1 NAME TEST1 return: [SUCCESS]Set encoder 001 name:TEST1.	

4.3 Control the TX power light to flash

API interface
SET ENC [enc] LED ON/OFF SET ENC [enc] LED ON 90
Describe

Control the TX power light to flash.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
ON	The power light is flashing
OFF	The power light is always on
ON 90	The power light flashes for 90 seconds and then remains on
Return value	Describe
[SUCCESS]Flash power LED on encoder 001.	Flash TX1 power light
Example	
TELNET login DARWIN CONTROL Flash power light, enter the command: SET ENC 1 LED ON return: [SUCCESS]Flash power LED on encoder 001. The power light is always on. Enter the command: SET ENC 1 LED OFF return: [SUCCESS]Disable flash power LED on encoder 001. Flash power light for 90 seconds, enter the command: SET ENC 1 LED ON 90 return: [SUCCESS]Flash power LED on encoder 001 and keep 90 seconds.	

4.4 Control TX front panel digital tube

API interface	
SET ENC [enc] FPLED 0/9	
Describe	
Control the digital tube on the TX front panel to turn on/off.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
0	The digital tube is always on
9	The digital tube lights up for 90 seconds before turning off
Return value	Describe
[SUCCESS]Set encoder 001 LED always on.	Control the digital tube to stay on continuously
Example	

TELNET login DARWIN CONTROL Control the RX1 digital tube to remain on, enter the command: SET DEC 1 FPLED 0 return: [SUCCESS]Set encoder 001 LED always on. Control the RX1 digital tube to turn on for 90 seconds and then turn off. Enter the command: SET DEC 1 FPLED 9 return: [SUCCESS]Set encoder 001 LED 90 seconds auto off.

4.5 Set TX audio source

API interface	
SET ENC [enc] AUDIO INPUT HDMI/ANA	
Describe	
Set up TX audio source.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
HDMI	Audio from HDMI IN
ANA	Audio from analog input AUDIO IN L/R
Return value	Describe
[SUCCESS]Set encoder 001 audio select hdmi.	Set TX1 audio source to HDMI
Example	
TELNET login DARWIN CONTROL Set TX1 audio source to HDMI, enter the command: SET ENC 1 AUDIO INPUT HDMI return: [SUCCESS]Set encoder 001 audio select hdmi.	

4.6 Set TX EDID

API interface	
SET ENC [enc] EDID DEFAULT [edid]	
Describe	
Set TX EDID	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
edid	00: HDMI 1080p@60Hz, Audio 2CH PCM 01: HDMI 720p@60Hz , Audio 2CH PCM 02: DVI 1280x1024@60Hz, Audio None 03: DVI 1920x1080@60Hz, Audio None 04: DVI 1920x1200@60Hz, Audio None 05: HDMI 1920x1200p@60Hz, Audio 2CH PCM

	06: Copy EDID 07: User EDID 1 08: User EDID 2
Return value	Describe
[SUCCESS]Set encoder 001 edid to HDMI 1080p@60Hz, Audio 2CH PCM.	Set TX1 EDID to 1080p@60Hz, Audio 2CH PCM
Example	
TELNET login DARWIN CONTROL Set TX1 EDID to 1080p@60Hz, Audio 2CH PCM, enter the command： SET ENC 1 EDID DEFAULT 0 return： [SUCCESS]Set encoder 001 edid to HDMI 1080p@60Hz, Audio 2CH PCM.	

4.7 Set TX to copy RX EDID

API interface	
SET ENC [enc] EDID COPY [dec]	
Describe	
Set TX to copy RX's EDID	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
dec	[001...762]: RX ID number
Return value	Describe
[SUCCESS]Copy decoder 002 edid to encoder 001.	Set TX1 to copy RX2's EDID
Example	
TELNET login DARWIN CONTROL Set TX1 to copy the EDID of RX2, enter the command: SET ENC 1 EDID COPY 2 return: [SUCCESS]Copy decoder 002 edid to encoder 001.	

4.8 Set TX IR level

API interface	
SET ENC [enc] IR VOL 5V/12V	
Describe	
Set TX IR level.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
5V	Use 5V IR cable

12V	Use 12V IR cable
Return value	Describe
[SUCCESS]Set encoder 001 IR voltage 5V.	Set TX1 to use 5V IR cable
Example	
TELNET login DARWIN CONTROL Set TX1 to use 5V IR cable, enter the command: SET ENC 1 IR VOL 5V return: [SUCCESS]Set encoder 001 IR voltage 5V.	

4.9 Set TX encoding bandwidth

API interface	
SET ENC [enc] STREAM BITRATE [rate]	
Describe	
Set the TX encoding bandwidth.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
rate	0: 1Mb 1: 4Mb 2: 8Mb 3: 16Mb 4: 20Mb
Return value	Describe
[SUCCESS]Set encoder 001 bandwidth 8Mb.	Set TX1 encoding bandwidth to 8Mbps
Example	
TELNET login DARWIN CONTROL Set TX1 encoding bandwidth to 8Mbps, enter the command: SET ENC 1 STREAM BITRATE 2 return: [SUCCESS]Set encoder 001 bandwidth 8Mb.	

4.10 Set TX mainstream encoding parameters

API interface	
SET ENC [enc] MAINSTREAM E [type] A ON/OFF	
Describe	
Set TX mainstream encoding parameters.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
type	0: h264 1: h265
ON	Add audio

OFF	Remove audio
Return value	Describe
[SUCCESS]Set encoder 001 main stream encode type H265 audio on.	Set TX1 mainstream H265 encoding and add audio
Example	
TELNET login DARWIN CONTROL Set TX1 mainstream H265 encoding, add audio, enter the command: SET ENC 1 MAINSTREAM E 1 A ON return: [SUCCESS]Set encoder 001 main stream encode type H265 audio on.	

4.11 Set TX secondary stream encoding parameters

API interface	
SET ENC [enc] SUBSTREAM E [type] H [sh] V [sv] B [rate] A ON/OFF	
Describe	
Set TX secondary stream encoding parameters.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
type	0: h264 1: h265
sh	[320...640]: Must be an even number
sv	[180...540]: Must be an even number
rate	0: 1Mb 1: 4Mb 2: 8Mb 3: 16Mb 4: 20Mb
ON	Add audio
OFF	Remove audio
Return value	Describe
[SUCCESS]Set encoder 001 sub stream encode type H265 width 640 height 540 bandwidth 8Mb audio on.	Set TX1 sub stream H265 encoding, width 640, height 540, 8Mb bandwidth, add audio
Example	
TELNET login DARWIN CONTROL Set TX1 sub stream H265 encoding, width 640, height 540, 8Mb bandwidth, add audio, enter the command: SET ENC 1 SUBSTREAM E 1 H 640 V 540 B 2 A ON return: [SUCCESS]Set encoder 001 sub stream encode type H265 width 640 height 540 bandwidth 8Mb audio on.	

4.12 Set TX audio encoding format

API interface
SET ENC [enc] AUDIO FORMAT PCM/AAC

Describe	
Set the TX audio encoding format.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
PCM	Audio PCM encoding format
AAC	Audio AAC encoding format
Return value	Describe
[SUCCESS]Set encoder 001 audio format AAC.	Set TX1 audio to be encoded in AAC format
Example	
TELNET login DARWIN CONTROL Set TX1 audio to be encoded in AAC format, enter the command: SET ENC 1 AUDIO FORMAT AAC return: [SUCCESS]Set encoder 001 audio format AAC.	

4.13 Set TX serial port parameters

API interface	
SET ENC [enc] GUEST ON/OFF BR [br] BIT [bit]	
Describe	
Set TX serial port parameters	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
ON	Enable serial port Guest mode
OFF	Disable the serial port Guest mode
br	[0:300 1:600 2:1200 3:2400 4:4800 5:9600] [6:19200 7:38400 8:57600 9:115200]
bit	Data Bits + Parity + Stop Bits example: 8n1 Data Bits=[5...8], Parity=[n o e], Stop Bits=[1..2]
Return value	Describe
[SUCCESS]Set serial guest mode config done.	Successfully set TX serial port parameters
Example	
TELNET login DARWIN CONTROL Set TX1 to enable serial port Guest mode, baud rate 115200, 8-bit data bits, no checksum, 1-bit stop bit, enter the command: SET ENC 1 GUEST ON BR 9 BIT 8N1 return: [SUCCESS]Set serial guest mode config done.	

4.14 Activate TX serial port Guest mode

API interface	
SET ENC [enc] GUEST	
Describe	
Activate TX serial port Guest mode, only effective when the serial port parameter is set to GUEST ON	
Parameter	Describe
enc enc	[001…762]: TX ID 号 [001... 762]: TX ID number
Return value	Describe
None	
Example	
TELNET login DARWIN CONTROL Enable TX1 serial port Guest mode, enter the command: SET ENC 1 GUEST	

4.15 Exit TX serial port Guest mode

API interface	
EXITGUEST	
Describe	
After starting the TX serial port Guest mode, send EXITGUEST to exit Guest mode	
Parameter	Describe
None	
Return value	Describe
None	
Example	
TELNET login DARWIN CONTROL Exit TX1 serial port Guest mode, enter the command: EXITGUEST	

4.16 Set TX IP mode

API interface	
SET ENC [enc] IPMODE DHCP/STATIC	
Describe	
Set the IP mode of TX	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
DHCP	Dynamic IP
STATIC	Static IP
Return value	Describe
[SUCCESS]Set encoder 001 ip mode	Set successfully, TX network needs

to dhcp. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	to be restarted for it to take effect
Example	
TELNET login DARWIN CONTROL Set TX1 to dynamic IP mode, enter the command: SET ENC 1 IPMODE DHCP return: [SUCCESS]Set encoder 001 ip mode to dhcp. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	

4.17 Set TX IP address

API interface	
SET ENC [enc] STATIC IP [ip]	
Describe	
Set the IP address of TX, which is only valid when IP MODE is set to STATIC.	
Parameter	Describe
enc	[001…762]: TX ID number
ip	IP address, such as 169.254.10.10
Return value	Describe
[SUCCESS]Set encoder 001 IP address to 169.254.020.006. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	Set successfully, TX network needs to be restarted for it to take effect
Example	
TELNET login DARWIN CONTROL Set the IP of TX1 to 169.254.20.6, enter the command: SET ENC 1 STATIC IP 169.254.20.6 return: [SUCCESS]Set encoder 001 IP address to 169.254.020.006. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	

4.18 Set TX subnet mask

API interface	
SET ENC [enc] STATIC MASK [mask]	
Describe	
Set the subnet mask for TX, which is only valid when IP MODE is set to STATIC.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
mask	Subnet mask, such as 255.255.0.0

Return value	Describe
[SUCCESS]Set encoder 001 subnet mask address to 255.255.000.000. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	Set successfully, TX network needs to be restarted for it to take effect
Example	
TELNET login DARWIN CONTROL Set the subnet mask of TX1 to 255.255.0.0, enter the command: SET ENC 1 STATIC MASK 255.255.0.0 return: [SUCCESS]Set encoder 001 subnet mask address to 255.255.000.000. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	

4.19 Set TX gateway address

API interface	
SET ENC [enc] STATIC GATEWAY [gw]	
Describe	
Set the gateway address of TX, which is only valid when IP MODE is set to STATIC.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
gw	Gateway address, such as 169.254.0.1
Return value	Describe
[SUCCESS]Set encoder 001 gateway address to 169.254.000.001. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	Set successfully, TX network needs to be restarted for it to take effect
Example	
TELNET login DARWIN CONTROL Set the gateway address of TX to 169.254.0.1, enter the command: SET ENC 1 STATIC GATEWAY 169.254.0.1 return: [SUCCESS]Set encoder 001 gateway address to 169.254.000.001. Use "SET ENC xx NETWORK REBOOT" command to apply new config!!!	

4.20 Set TX network reboot

API interface
SET ENC [enc] NETWORK REBOOT
Describe
Set TX's network reboot

Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
Return value	Describe
[SUCCESS]Set encoder 001 reboot and apply all the new config.	Set successfully
Example	
TELNET login DARWIN CONTROL Reboot the network of TX1 and enter the command: SET ENC 1 NETWORK REBOOT return: [SUCCESS]Set encoder 001 reboot and apply all the new config.	

4.21 Remove TX from the system

API interface	
SET ENC [enc] DELETE	
Describe	
Delete TX	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
Return value	Describe
[SUCCESS]Delete encoder 001 done.	Delete TX1 successfully
Example	
TELNET login DARWIN CONTROL Delete TX1, enter the command: SET ENC 1 DELETE return: [SUCCESS]Delete encoder 001 done.	

4.22 Reboot TX

API interface	
SET ENC [enc] REBOOT	
Describe	
Reboot TX	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
Return value	Describe
[SUCCESS]Set encoder 001 reboot and apply all the new config.	Reboot successfully
Example	

TELNET login DARWIN CONTROL Reboot TX1 and enter the command: SET ENC 1 REBOOT return: [SUCCESS]Set encoder 001 reboot and apply all the new config.

4.23 Reset TX

API interface	
SET ENC [enc] RESET	
Describe	
复位 TX Reset TX	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
Return value	Describe
[SUCCESS]Set encoder 001 reset to default setting.	Reset successfully
Example	
TELNET login DARWIN CONTROL Reset TX1, enter the command: SET ENC 1 RESET return: [SUCCESS]Set encoder 001 reset to default setting.	

4.24 Obtain TX status information

API interface	
GET ENC [enc] STATUS	
Describe	
Obtain the status information of TX, without the parameter enc, to obtain the status information of all TX, i.e. GET ENC STATUS and GET ENC 0 STATUS.	
Parameter	Describe
enc	[001…762]: TX ID number 0: All TX
Return value	Describe
Return TX status information	Include version number, network information, and other status information
Example	
TELNET login DARWIN CONTROL： Obtain the status information of TX1, enter the command: GET ENC 1 STATUS return：	

```
============================================================
                IP Control Box DARWIN CONTROL Encoder Info
                FW Version: 2.03.19

In      Net      Sig     Ver        EDID     Aud     MCast     Name
001     On       Off     2.00.06 DF000    HDMI    On        Encoder 001
      >>LED      SGEn/Br/Bit
        9        Off /9/8n1
      >>MAC
        6c:df:fb:08:5e:b9
      >>IP                  GW                  SM
169.254.010.001   169.254.008.001   255.255.000.000
============================================================
```

4.25 Set TX preset IP mode

API interface	
SET ENC PRESET IPMODE [mode]	
Describe	
Set the IP mode for TX preset, and assign TX's IP based on this preset mode when adding TX to the system	
Parameter	Describe
mode	0:AUTOIP 1:DHCP 2:STATIC
Return value	Describe
[SUCCESS]Set encoder preset IP to static mode.	Set TX preset IP mode to static successfully
Example	
TELNET login DARWIN CONTROL Set the TX preset IP mode to static, enter the command: SET ENC PRESET IPMODE 2 return: [SUCCESS]Set encoder preset IP to static mode.	

4.26 Set TX preset IP starting address

API interface	
SET ENC PRESET START IP [ip]	
Describe	
Set the IP starting address for TX preset	
Parameter	Describe
ip	IP address, such as 169.254.10.10
Return value	Describe
[SUCCESS]Set encoder preset IP min 172.016.010.001.	Set the IP starting address for TX preset to 172.16.10.1
Example	

TELNET login DARWIN CONTROL 设置 TX 预设的 IP 起始地址为 172.16.10.1，输入命令： Set the IP starting address for TX preset to 172.16.10.1, enter the command: SET ENC PRESET START IP 172.16.10.1 return: [SUCCESS]Set encoder preset IP min 172.016.010.001.

4.27 Set TX preset IP end address

API interface	
SET ENC PRESET END IP [ip]	
Describe	
Set the IP end address for TX preset, which should be greater than the starting address and within the same network segment.	
Parameter	Describe
ip	IP address, such as 169.254.20.10
Return value	Describe
[SUCCESS]Set encoder preset IP max 172.016.010.200.	Set the IP end address for TX preset to 172.16.10.200
Example	
TELNET login DARWIN CONTROL Set the IP end address for TX preset to 172.16.10.200, enter the command: SET ENC PRESET END IP 172.16.10.200 return: [SUCCESS]Set encoder preset IP max 172.016.010.200.	

4.28 Set TX preset subnet mask

API interface	
SET ENC PRESET SM [mask]	
Describe	
Set the subnet mask for TX preset	
Parameter	Describe
mask	Subnet mask, such as 255.255.0.0
Return value	Describe
[SUCCESS]Set encoder preset netmask 255.255.000.000.	Set the subnet mask for TX preset to 255.255.0.0
Example	
TELNET login DARWIN CONTROL Set the subnet mask for TX preset to 255.255.0.0, enter the command: SET ENC PRESET SM 255.255.0.0 return: [SUCCESS]Set encoder preset netmask 255.255.000.000.	

4.29 Set TX preset gateway address

API interface

SET ENC PRESET GW [gw]	
Describe	
Set the gateway address for TX preset	
Parameter	Describe
gw	Gateway address, such as 169.254.0.1
Return value	Describe
[SUCCESS]Set encoder preset gateway 172.016.010.001.	Set the gateway address for TX preset to 172.16.10.1
Example	
TELNET login DARWIN CONTROL Set the gateway address for TX preset to 172.16.10.1, enter the command: SET ENC PRESET GW 172.16.10.1 return: [SUCCESS]Set encoder preset gateway 172.016.010.001.	

4.30 Save TX preset configuration

API interface	
SET ENC PRESET APPLY	
Describe	
Save the preset configuration of TX, after setting the preset IP mode and other settings, you need to call APPLY to save it.	
Parameter	Describe
Return value	Describe
[SUCCESS]Set encoder preset IP done. [SUCCESS]Set encoder preset IP done.	Save TX preset configuration successfully
Example	
TELNET login DARWIN CONTROL Save TX preset configuration, enter the command: SET ENC PRESET APPLY return: [SUCCESS]Set encoder preset IP done.	

5. Video Wall Module API Reference

5.1 Create a video wall

API interface	
CREATE WALL HANDLE [hdl]	
Describe	
Create a video wall	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
Return value	Describe
[SUCCESS]Create video wall 1.	Create a video wall with ID 1
Example	
TELNET login DARWIN CONTROL Create a video wall with ID 1, enter the command: CREATE WALL HANDLE 1 return: [SUCCESS]Create video wall 1.	

5.2 Delete video wall

API interface	
DELETE WALL HANDLE [hdl]	
Describe	
Delete video wall	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
Return value	Describe
[SUCCESS]Delete videowall 1.	Delete Video Wall 1
Example	
TELNET login DARWIN CONTROL Delete Video Wall 1, enter the command: DELETE WALL HANDLE 1 return: [SUCCESS]Delete videowall 1.	

5.3 Change the name of the video wall

API interface	
SET WALL [hdl] NAME [name]	
Describe	
Change the name of the video wall	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
name	Video wall name, maximum 16 characters
Return value	Describe
[SUCCESS]Rename video wall 1:	Rename Video Wall 1 as VW1

VW1.	
Example	
TELNET login DARWIN CONTROL Rename Video Wall 1 as VW1, enter the command: SET WALL 1 NAME VW1 return: [SUCCESS]Rename video wall 1: VW1.	

5.4 Set the size of the video wall

API interface	
SET WALL [hdl] C [c] R [r]	
Describe	
Set the size of the video wall.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
c	Number of video wall columns
r	Number of video wall rows
Return value	Describe
[SUCCESS]Create video wall 1: NULL.	Successfully set up video wall 1
Example	
TELNET login DARWIN CONTROL Set up a 2x2 video wall, enter the command: SET WALL 1 C 2 R 2 return: [SUCCESS]Create video wall 1: NULL.	

5.5 Assign RX to Video Wall

API interface	
SET WALL [hdl] DEC [dec] H [h] V [v]	
Describe	
Assign RX to Video Wall	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
dec	[001...762]: RX ID number
h	Column number of video wall
v	Line number of the video wall
Return value	Describe
[SUCCESS]Assign decoder 001 to video wall 1.	Assign RX1 to Video Wall 1
Example	

TELNET login DARWIN CONTROL Assign RX1 to the first row and column of Video Wall 1, enter the command: SET WALL 1 DEC 1 H 1 V 1 return: [SUCCESS]Assign decoder 001 to video wall 1.

5.6 Create a video wall preset

API interface	
CREATE WALL [hdl] PRESET [prs]	
Describe	
Create a video wall preset. A preset will be created automatically when creating a new video wall.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
Return value	Describe
[SUCCESS]Create preset 2: NULL.	Create preset successfully
Example	
TELNET login DARWIN CONTROL Create preset 2 for video wall 1, enter the command: CREATE WALL 1 PRESET 2 return: [SUCCESS]Create preset 2: NULL.	

5.7 Delete video wall preset

API interface	
DELETE WALL [hdl] PRESET [prs]	
Describe	
Delete the video wall preset.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
Return value	Describe
[SUCCESS]Delete preset: Preset 2.	Delete preset successfully
Example	
TELNET login DARWIN CONTROL 视频墙 1 删除预设 2，输入命令： Delete Preset 2 of Video Wall 1, enter the command: DELETE WALL 1 PRESET 2 return: [SUCCESS]Delete preset: Preset 2.	

5.8 Modify the preset name of the video wall

API interface
SET WALL [hdl] PRESET [prs] NAME [name]

Describe	
Modify the preset name of the video wall	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
name	Preset name, supporting up to 16 characters
Return value	Describe
[SUCCESS]Rename preset 1: TEST1.	Change the preset name of the video wall to TEST 1
Example	
TELNET login DARWIN CONTROL Change the name of video wall 1 preset 1 to TEST 1, enter the command: SET WALL 1 PRESET 1 NAME TEST1 return: [SUCCESS]Rename preset 1: TEST1.	

5.9 Activate video wall preset

API interface	
APPLY WALL [hdl] PRESET [prs]	
Describe	
Activate the video wall preset.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
Return value	Describe
[SUCCESS]Apply preset: Preset 1.	Startup preset successfully
Example	
TELNET login DARWIN CONTROL Activate Video Wall 1 Preset 1, enter the command: APPLY WALL 1 PRESET 1 return: [SUCCESS]Apply preset: Preset 1.	

5.10 Set video wall preset grouping

API interface	
SET WALL [hdl] PRESET [prs] CLASS [cls] H [h] V [v]	
Describe	
Set the video wall preset grouping, and when creating the preset, all RXs will be in Class A by default.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
cls	[A...G]: Group ID number
h	Column number of video wall

v	Line number of the video wall
Return value	Describe
[SUCCESS]Done.	Group creation successfully
Example	
TELNET login DARWIN CONTROL Set the screen of the first row and second column of Video Wall 1 to preset Class B, enter the command: SET WALL 1 PRESET 1 CLASS B H 2 V 1 return: [SUCCESS]Done.	

5.11 Set the signal source for the preset grouping of the video wall

API interface	
SET WALL [hdl] PRESET [prs] CLASS [cls] SOURCE [enc]	
Describe	
Set the signal source for the preset grouping of the video wall.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
cls	[A...G]: Class ID number
enc	[001...762]: TX ID number 0: Cancel routing
Return value	Describe
[SUCCESS]Done.	Set successfully
Example	
TELNET login DARWIN CONTROL Set the signal source for Class B of Video Wall 1 to TX1. Enter the command: SET WALL 1 PRESET 1 CLASS B SOURCE 1 return: [SUCCESS]Done.	

5.12 Set the preset matrix group for the video wall

API interface	
SET WALL [hdl] PRESET [prs] MATRIX H [h] V [v]	
Describe	
Set the preset matrix group for the video wall, with the RX in matrix mode.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
h	Column numbers of video wall
v	Line numbers of the video wall
Return value	Describe
[SUCCESS]Done.	Successfully set matrix group
Example	

TELNET login DARWIN CONTROL Set the screen of the first row and second column of Video Wall 1 as the preset matrix group, enter the command: SET WALL 1 PRESET 1 MATRIX H 2 V 1 return: [SUCCESS]Done.

5.13 Set the signal source for the preset matrix group of the video wall

API interface	
SET WALL [hdl] PRESET [prs] MATRIX H [h] V [v] SOURCE [enc]	
Describe	
Set the signal source for the preset matrix group of the video wall.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
prs	[01...09]: Preset ID Number
h	Column number of video wall
v	Line number of the video wall
enc	[001...762]: TX ID number 0: Cancel routing
Return value	Describe
[SUCCESS]Done.	Set successfully
Example	
TELNET login DARWIN CONTROL Set the signal source for the screen in the first row and second column of the preset matrix group of Video Wall 1 to TX1. Enter the command: SET WALL 1 PRESET 1 MATRIX H 2 V 1 SOURCE 1 return: [SUCCESS]Done.	

5.14 Set the width bezel of the video wall screen

API interface	
SET WALL [hdl] H [h] V [v] WIDTH BEZEL BW [b] IW [i]	
Describe	
Set the width bezel of the video wall screen.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
h	Column number of video wall
v	Line number of the video wall
b	[100...1000]: Original image width
i	[100...1000]: Visible image width, i cannot be greater than b
Return value	Describe
[SUCCESS]Done.	Set successfully
Example	

TELNET login DARWIN CONTROL Set the screen width bezel of the first row and first column of Video Wall 1 to be cropped by 10%, (BW - IW)/BW=10%, enter the command: SET WALL 1 H 1 V 1 WIDTH BEZEL BW 1000 IW 900 return: [SUCCESS]Done.

5.15 Set the height bezel of the video wall screen

API interface	
SET WALL [hdl] H [h] V [v] HEIGHT BEZEL BH [b] IH [i]	
Describe	
Set the height bezel of the video wall screen.	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
h	Column number of video wall
v	Line number of the video wall
b	[100...1000]: Original image height
i	[100...1000]: Visible image height, i cannot be greater than b
Return value	Describe
[SUCCESS]Done.	Set successfully
Example	
TELNET login DARWIN CONTROL Set the screen height bezel of the first row and first column of Video Wall 1 to be cropped by 10%, (BH - IH)/BH=10%, enter the command: SET WALL 1 H 1 V 1 HEIGHT BEZEL BH 1000 IH 900 return: [SUCCESS]Done.	

5.16 Get the status of the video wall

API interface	
GET WALL [hdl] STATUS	
Describe	
Get the status of the video wall	
Parameter	Describe
hdl	[01...09]: Video Wall ID Number
Return value	Describe
Print video wall status information	
Example	
TELNET login DARWIN CONTROL Get the status information of Video Wall 1, enter the command: GET WALL 1 STATUS return: ========== IP Control Box DARWIN CONTROL Video Wall Info	

```
                    FW Version: 2.03.19

VW   Col      Row      CfgSel   Name
01   02       02       01       Video Wall 1
     OutID
     003 --- --- ---
     CFG      Name
     01       Preset 1
              Group   FromIn   Screen
              A       001      H01V01 H02V01 H01V02 H02V02
============================================================
```

6. System Management Module API Reference

6.1 Device Search

API interface	
SEARCH	
Describe	
Search for online devices	
Parameter	Describe
None	
Return value	Describe
Return the information of the current system's online device	
Example	

TELNET login DARWIN CONTROL

Search online devices, enter the command：

SEARCH

return：

[SUCCESS]More device in network will take more time to finish scan, please wait...done.

```
================================================================
                    Scan Device Result Info

==New Encoder
None

==System Control Encoder
Index    IP                  MAC                  ID
001      169.254.010.001     6c:df:fb:08:5e:b9    001

==New Decoder
None

==System Control Decoder
Index    IP                  MAC                  ID
001      169.254.020.003     6c: df:fb:07:cf:c6   003
================================================================
```

6.2 View device search results

API interface	
GET SEARCH STATUS	
Describe	
View device search results	
Parameter	Describe

None	
Return value	Describe
Return the information of current system's online devices	
Example	

TELNET login DARWIN CONTROL
View the device search results, enter the command:
GET SEARCH STATUS

return：

```
================================================================
                    Scan Device Result Info

==New Encoder
None

==System Control Encoder
Index    IP                  MAC                    ID
001      169.254.010.001     6c:df:fb:08:5e:b9      001

==New Decoder
None

==System Control Decoder
Index    IP                  MAC                    ID
001      169.254.020.003     6c:df:fb:07:cf:c6      003
================================================================
```

6.3 Clear device search results

API interface	
SEARCH RESET	
Describe	
Clear device search results	
Parameter	Describe
None	
Return value	Describe
[SUCCESS]Reset search info.	Clear device search results
Example	

TELNET login DARWIN CONTROL
Clear the device search results and enter the command:
SEARCH RESET
return:
[SUCCESS]Reset search info.

6.4 Automatically add new devices to the system

API interface

ADD AUTO ALL	
Describe	
Automatically add new devices to the system. Before calling this interface, you need to call the SEARCH interface to search for online devices.	
Parameter	Describe
None	
Return value	Describe
[SUCCESS]Add scan index 001 device to decoder 003. [SUCCESS]Add scan index 002 device to decoder 004. [SUCCESS]Add scan index 003 device to decoder 002. [SUCCESS]Add scan index 004 device to decoder 001.	Add new devices successfully
Example	
TELNET login DARWIN CONTROL Automatically add new devices to the system, enter the command: ADD AUTO ALL return： [SUCCESS]Add scan index 001 device to decoder 003. [SUCCESS]Add scan index 002 device to decoder 004. [SUCCESS]Add scan index 003 device to decoder 002. [SUCCESS]Add scan index 004 device to decoder 001.	

6.5 Add a new TX device to the system

API interface	
ADD DEV [dev] ENC [enc]	
Describe	
Add a new TX device to the system. Before calling this interface, you need to call the SEARCH interface to search for online devices.	
Parameter	Describe
dev	Index of New Encoder in SEARCH results
enc	[001...762]: TX ID number 0: The system automatically assigns IDs
Return value	Describe
[SUCCESS]Add scan index 001 device to encoder 004.	Add the TX device with Index 1 from the New Encoder to the system and assign ID 4
Example	

TELNET login DARWIN CONTROL Add the TX device with Index 1 from the New Encoder to the system and assign ID 4. Enter the command: ADD DEV 1 ENC 4 return: [SUCCESS]Add scan index 001 device to encoder 004.

6.6 Add a new RX device to the system

API interface	
ADD DEV [dev] DEC [dec]	
Describe	
Add a new RX device to the system. Before calling this interface, you need to call the SEARCH interface to search for online devices.	
Parameter	Describe
dev	Index of New Decoder in SEARCH results
dec	[001...762]: RX ID number 0: The system automatically assigns IDs
Return value	Describe
[SUCCESS]Add scan index 001 device to decoder 001.	Add the RX device with Index 1 from the New Decoder to the system and assign ID 1
Example	
TELNET login DARWIN CONTROL Add the RX device with Index 1 from the New Decoder to the system and assign ID 1. Enter the command: ADD DEV 1 DEC 1 return: [SUCCESS]Add scan index 001 device to decoder 001.	

6.7 Clear existing devices from the system

API interface	
ADD DEV RESET	
Describe	
Clearing existing devices in the system will also clear information related to the devices, such as VW.	
Parameter	Describe
None	
Return value	Describe
[SUCCESS]Reset all Encoder/Decoder/Videowall/Search configuration.	Clear the existing devices and related configurations in the system
Example	

TELNET login DARWIN CONTROL
Clear the existing devices in the system and enter the command:
ADD DEV RESET
return:
[SUCCESS]Reset all Encoder/Decoder/Videowall/Search configuration.

7. DAWRIN CONTROL Network Configuration API Reference

7.1 Set DARWIN CONTROL IP mode

API interface	
SET NETWORK [lan] DHCP ON/OFF	
Describe	
Set the IP mode for DARWIN CONTROL Control LAN port and Video LAN port.	
Parameter	Describe
lan	LAN1: Video LAN port LAN2: Control LAN port
ON/OFF	ON: Enable DHCP OFF: Disable DHCP and use static IP
Return value	Describe
[SUCCESS]Set lan2 DHCP to on. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!	Set the Control LAN port to DHCP mode
Example	
TELNET login DARWIN CONTROL Set the Control LAN port to DHCP mode and enter the command: SET NETWORK LAN2 DHCP ON return: [SUCCESS]Set lan2 DHCP to on. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!	

7.2 Set DARWIN CONTROL IP address

API interface	
SET NETWORK [lan] STATIC IP [ip]	
Describe	
Set the IP addresses of DARWIN CONTROL Control LAN port and Video LAN port, which is only valid when the network port is set to static IP mode.	
Parameter	Describe
lan	LAN1: VIDEO LAN port LAN2: CONTROL LAN port
ip	IP address, such as 169.254.20.10
Return value	Describe
[SUCCESS]Set lan2 IP address to 192.168.070.040. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!	Set the IP address of CONTROL LAN port to 192.168.70.40
Example	

TELNET login DARWIN CONTROL Set the IP address of the CONTROL LAN port to192.168.70.40, enter the command: SET NETWORK LAN2 STATIC IP 192.168.70.40 return： [SUCCESS]Set lan2 IP address to 192.168.070.040. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!

7.3 Set DARWIN CONTROL gateway address

API interface	
SET NETWORK [lan] STATIC GATEWAY [gw]	
Describe	
Set the gateway addresses for DARWIN CONTROL Control LAN port and Video LAN port, which is only valid when the network port is set to static IP mode.	
Parameter	Describe
lan	LAN1: Video LAN port LAN2: Control LAN port
gw	Gateway address, such as 169.254.0.1
Return value	Describe
[SUCCESS]Set lan2 gateway address to 192.168.070.001. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!	Set the gateway address for the Control LAN port to 192.168.70.1
Example	
TELNET login DARWIN CONTROL Set the gateway address for the Control LAN port to 192.168.70.1, enter the command: SET NETWORK LAN2 STATIC GATEWAY 192.168.70.1 NET RB return: [SUCCESS]Set lan2 gateway address to 192.168.070.001. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!	

7.4 Set DARWIN CONTROL subnet mask

API interface	
SET NETWORK [lan] STATIC MASK [mask]	
Describe	
Set the subnet mask for DARWIN CONTROL Control LAN port and Video LAN port, which is only valid when the network port is set to static IP mode.	
Parameter	Describe

lan	LAN1: Video LAN port LAN2: Control LAN port
mask	Subnet mask, such as 255.255.0.0
Return value	Describe
[SUCCESS]Set lan2 subnet mask address to 255.255.255.000. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!	Set the subnet mask of Control LAN port to 255.255.255.0
Example	
TELNET login DARWIN CONTROL Set the subnet mask of Control LAN port to 255.255.255.0, enter the command: SET NETWORK LAN2 STATIC MASK 255.255.255.0 return： [SUCCESS]Set lan2 subnet mask address to 255.255.255.000. Use "SET NETWORK REBOOT" command or repower device to apply new config!!!	

7.5 Reboot DARWIN CONTROL network

API interface	
SET NETWORK REBOOT	
Describe	
After rebooting the DARWIN CONTROL network and modifying the network parameters, this API needs to be sent for the configuration to take effect.	
Parameter	Describe
None	
Return value	Describe
[SUCCESS]Set network reboot and apply new config.	Reboot network successfully
Example	
TELNET login DARWIN CONTROL Reboot the network and enter the command: SET NETWORK REBOOT： return: [SUCCESS]Set network reboot and apply new config.	

7.6 Set DARWIN CONTROL TELNET on/off

API interface	
SET NETWORK TELNET ON/OFF	
Describe	
Set the DARWIN CONTROL TELNET on/off (enabled by default).	
Parameter	Describe

ON/OFF	ON：Enable TELNET OFF: Disable TELNET
Return value	Describe
[SUCCESS]Set telnet port on.	Enable TELNET
Example	
TELNET login DARWIN CONTROL Enable TELNET and enter the command: SET NETWORK TELNET ON return: [SUCCESS]Set telnet port on.	

7.7 Set DARWIN CONTROL TELNET port number

API interface	
SET NETWORK TELNET PORT [port]	
Describe	
Set CTL100AL TELNET port number (23 by default).	
Parameter	Describe
port	TELNET port number, maximum value 65535
Return value	Describe
[SUCCESS]Set telnet port to 0030.	Set the TELNET port number to 30
Example	
TELNET login DARWIN CONTROL Set the TELNET port number to 30 and enter the command: SET NETWORK TELNET PORT 30 return: [SUCCESS]Set telnet port to 0030.	

7.8 Set DARWIN CONTROL SSH on/off

API interface	
SET NETWORK SSH ON/OFF	
Describe	
Set the DARWIN CONTROL SSH on/off (disabled by default).	
Parameter	Describe
ON/OFF	ON: Enable SSH OFF: Disable SSH
Return value	Describe
[SUCCESS]Set ssh port on.	Enable SSH
Example	
TELNET login DARWIN CONTROL Enable SSH and enter the command: SET NETWORK SSH ON return: [SUCCESS]Set ssh port on.	

7.9 Set DARWIN CONTROL SSH port number

API interface	
SET NETWORK SSH PORT [port]	
Describe	
Set DARWIN CONTROL SSH port number (22 by default).	
Parameter	Describe
port	TELNET port number, maximum value 65535
Return value	Describe
[SUCCESS]Set ssh port to 0030.	Set SSH port number to 30
Example	
TELNET login DARWIN CONTROL Set the SSH port number to 30 and enter the command: SET NETWORK SSH PORT 30 return: [SUCCESS]Set ssh port to 0030.	

7.10 Set DARWIN CONTROL HTTPS on/off

API interface	
SET NETWORK HTTPS ON/OFF	
Describe	
Set the DARWIN CONTROL HTTPS on/off (enabled by default).	
Parameter	Describe
ON/OFF	ON：Enable HTTPS OFF: Disable HTTPS
Return value	Describe
[SUCCESS]Set web gui https on.	Enable HTTPS
Example	
TELNET login DARWIN CONTROL Enable HTTPS, enter the command: SET NETWORK HTTPS ON return: [SUCCESS]Set web gui https on.	

7.11 Set DARWIN CONTROL WEB GUI on/off

API interface	
SET NETWORK WEB ON/OFF	
Describe	
Set the DARWIN CONTROL WEB on/off (enabled by default).	
Parameter	Describe
ON/OFF	ON：Turn on WEB OFF: Turn off WEB
Return value	Describe

[SUCCESS]Set web gui on.	Turn on WEB
Example	
TELNET login DARWIN CONTROL Turn on WEB and enter the command: SET NETWORK WEB ON return: [SUCCESS]Set web gui on.	

7.12 Modify DARWIN CONTROL domain name

API interface	
SET NETWORK DNS hostname	
Describe	
Change the domain name of DARWIN CONTROL, the default domain name is controller.local.	
Parameter	Describe
hostname	Domain names only support letters, numbers, and special characters such as - _.
Return value	Describe
[SUCCESS]Set DNS domain name to test.local. System will restart, please wait...	Set the domain name to test.local
Example	
TELNET login DARWIN CONTROL Set the domain name to test.local and enter the command: SET NETWORK DNS test return: [SUCCESS]Set DNS domain name to test.local. System will restart, please wait...	